

Open Data for Research Analytics: The SHARE Notification Service

Andrew Sallans, Center for Open Science
NORDP Annual Research Development Conference
Spring 2015

Founded by Academic Leaders Built with Open Technology



Research universities are long-lived and are mission-driven to generate, make accessible, and preserve over time new knowledge and understanding.

What is SHARE?

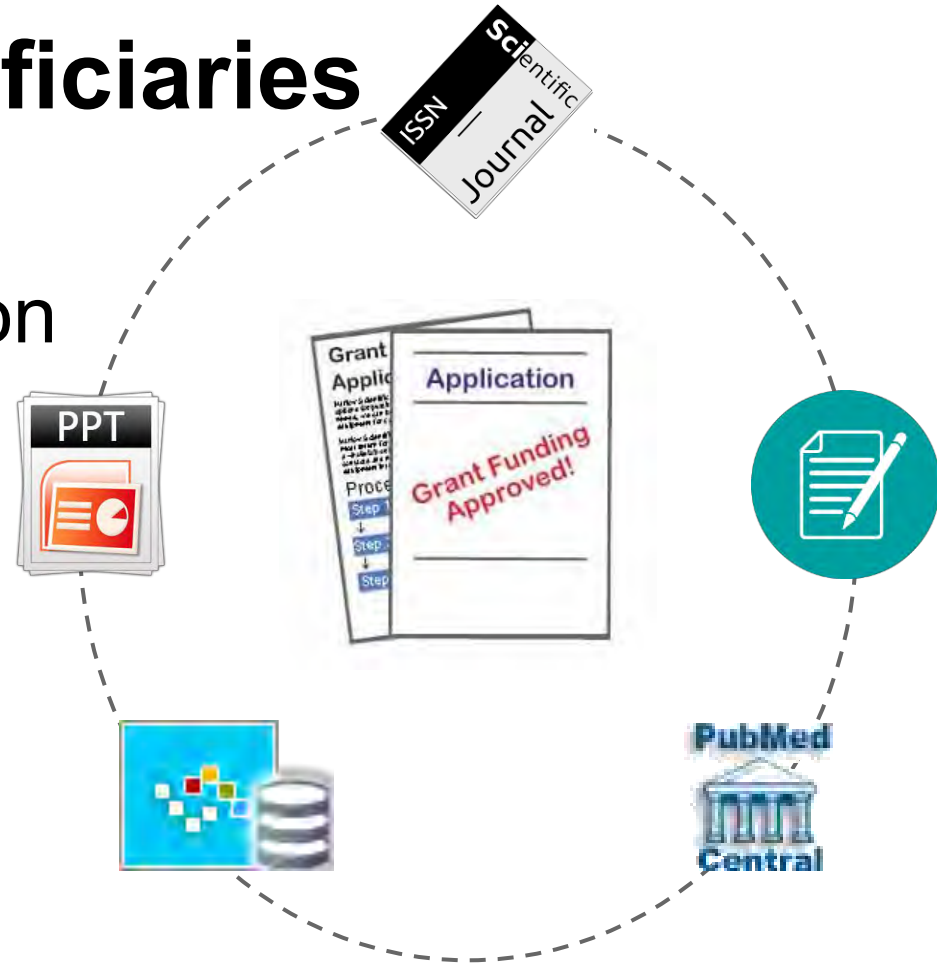
SHARE is creating an open data set about research activities across their life cycle. This comprehensive inventory of research will be widely accessible, discoverable, and reusable.



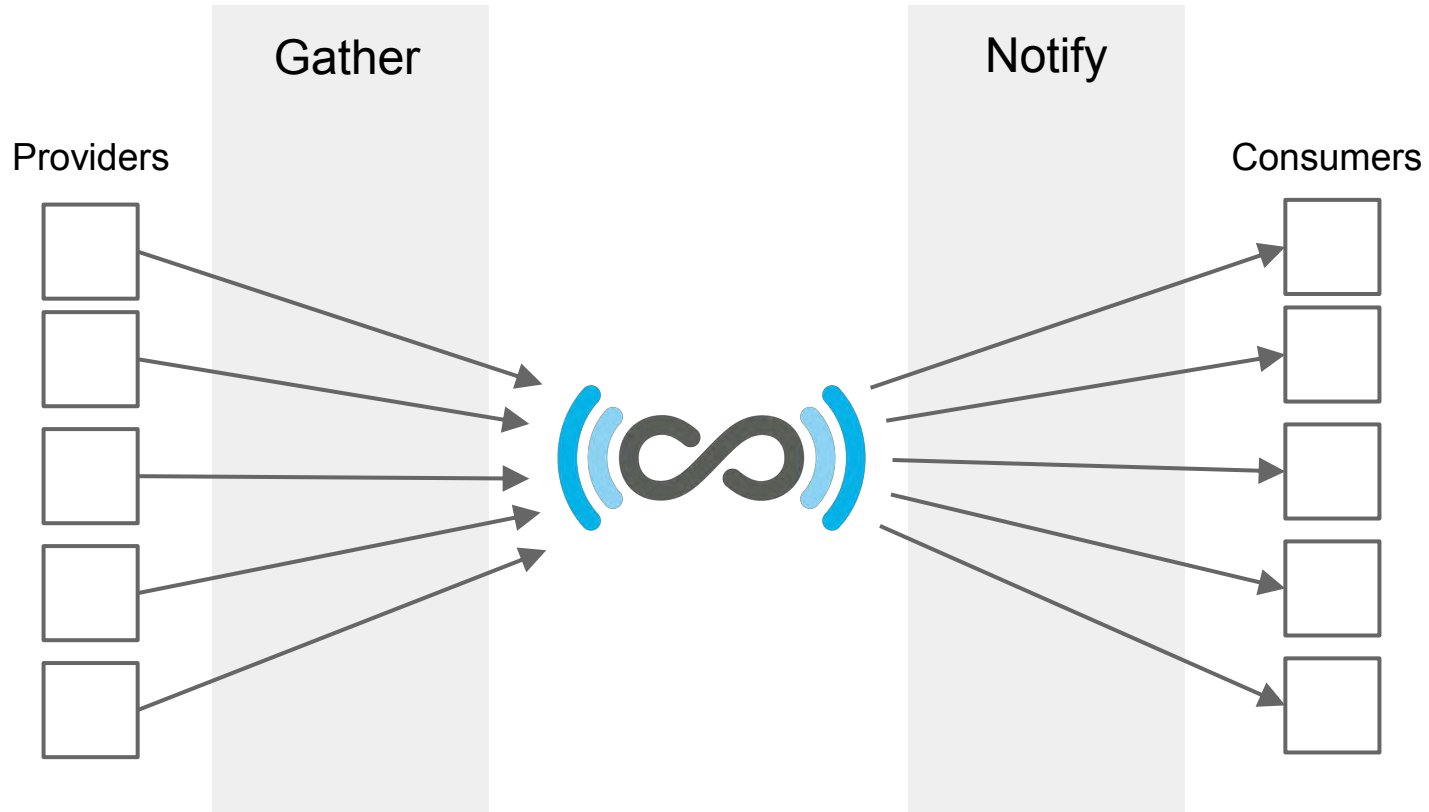
Alfred P. Sloan
FOUNDATION

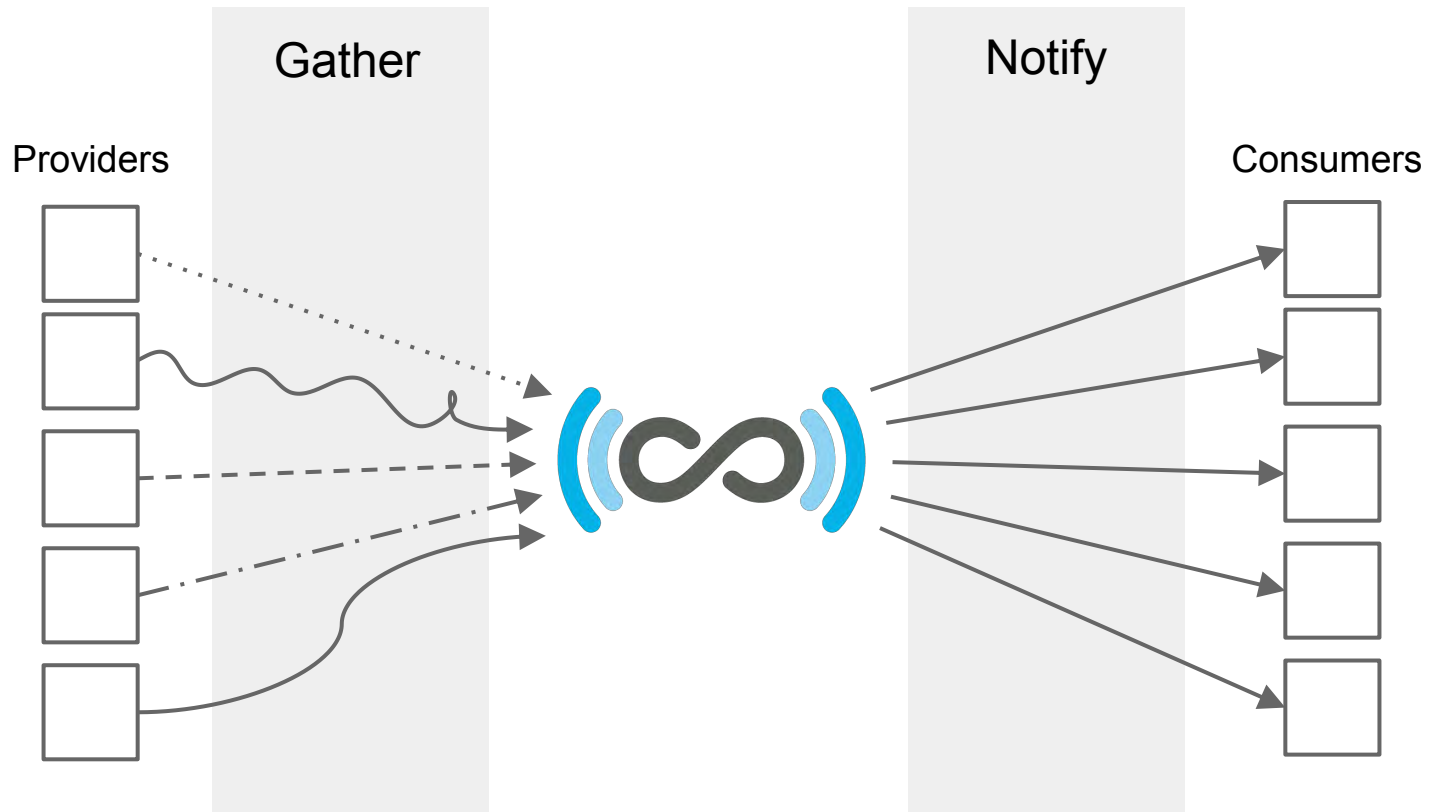
Stakeholders/beneficiaries

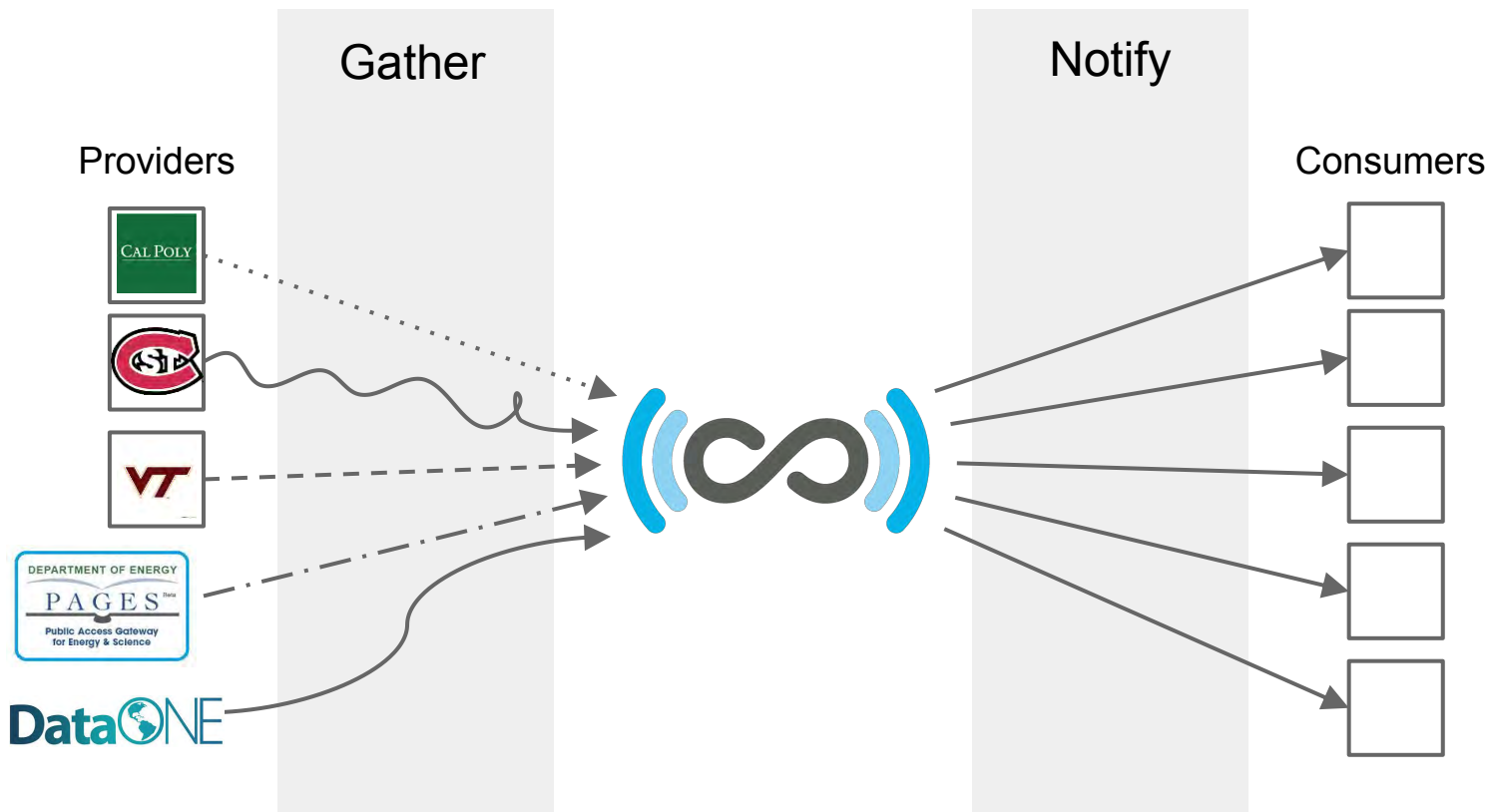
- Researchers
- Higher ed administration
- Libraries
- Repositories
- Research funders

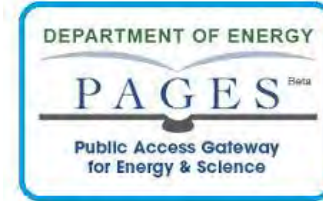


Open data allows for innovation







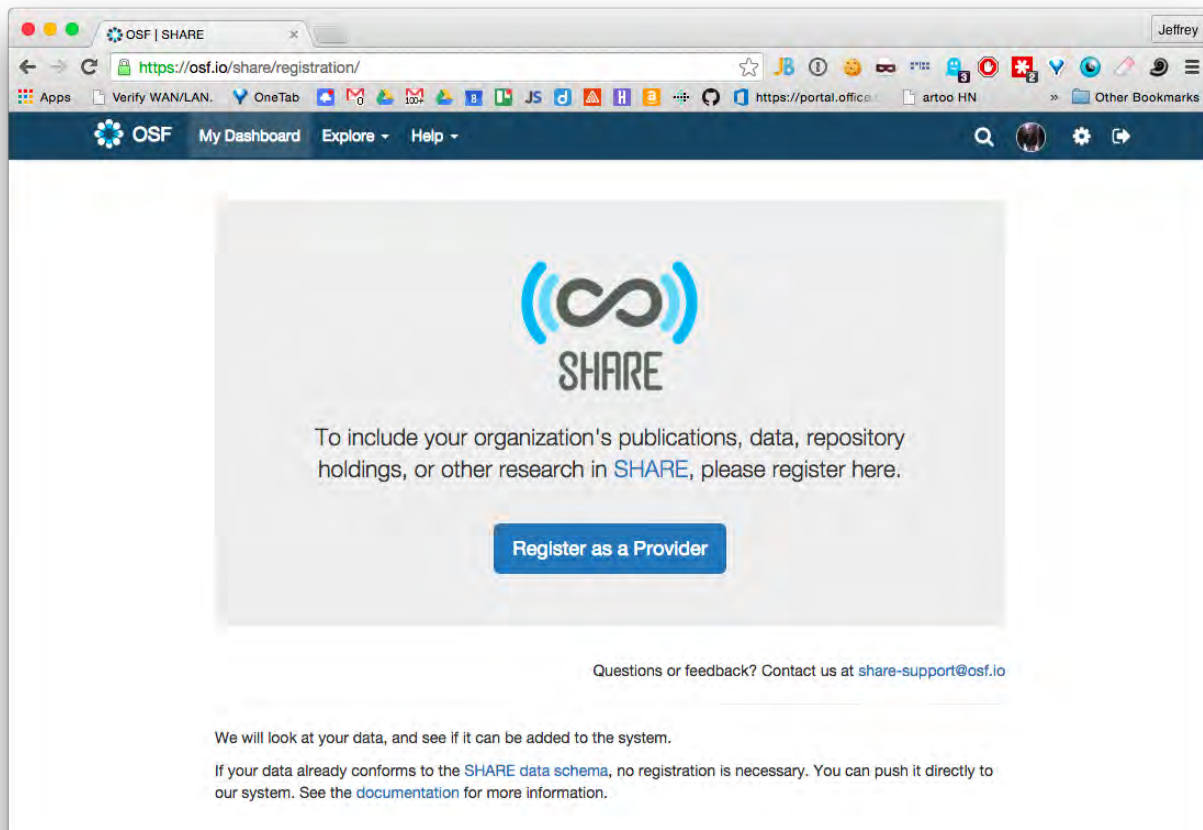


After only a few months...

700,000+ research release events

**30 content providers
(about 10 more in development)**

osf.io/share/registration




The screenshot shows a web browser window with the address bar displaying <https://osf.io/share/registration/>. The browser's address bar and tabs are visible at the top. The page header features the OSF logo and navigation links: "My Dashboard", "Explore", and "Help". The main content area has a light gray background and contains the SHARE logo, which consists of a blue infinity symbol with the word "SHARE" in black below it. Below the logo, the text reads: "To include your organization's publications, data, repository holdings, or other research in SHARE, please register here." A prominent blue button with white text "Register as a Provider" is centered below this text. At the bottom of the page, there is a line of text: "Questions or feedback? Contact us at share-support@osf.io".

OSF | SHARE

<https://osf.io/share/registration/>

Apps Verify WAN/LAN OneTab 0 100+ 8 JS d H a https://portal.office artoo HN Other Bookmarks

OSF My Dashboard Explore Help



To include your organization's publications, data, repository holdings, or other research in SHARE, please register here.

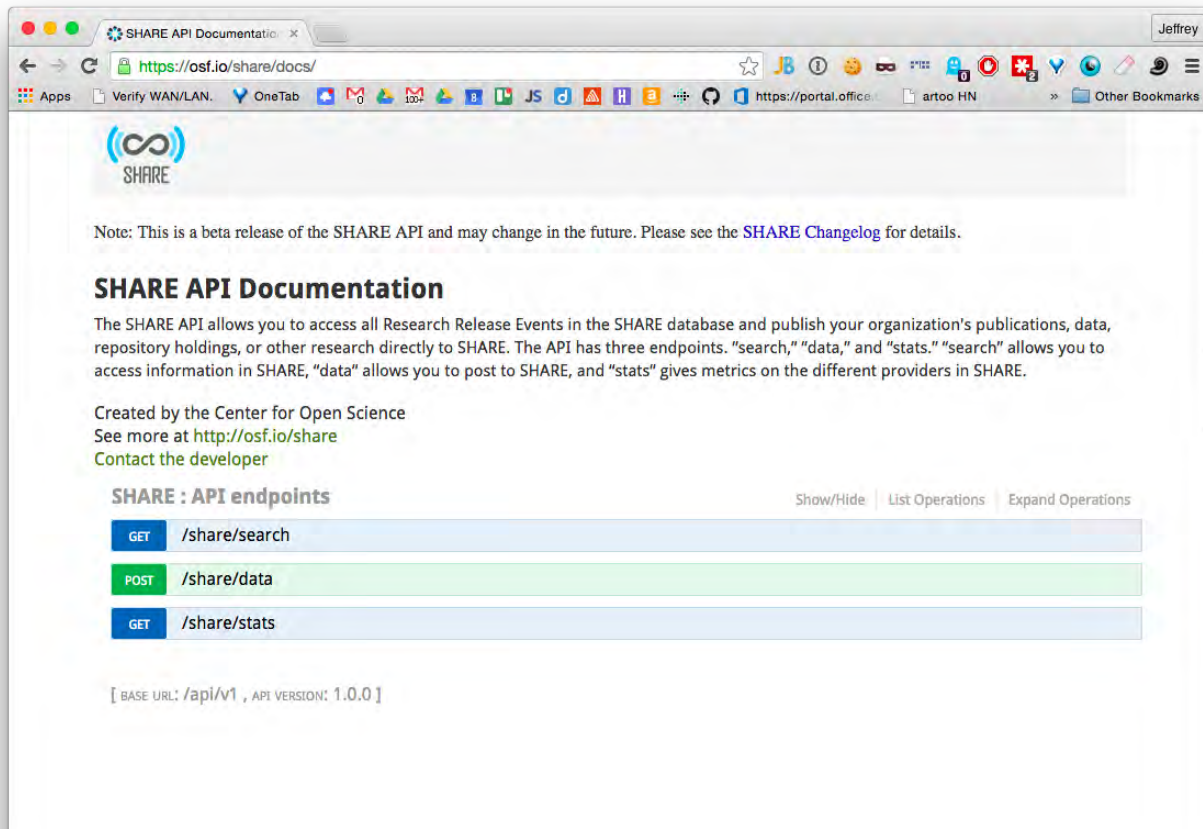
[Register as a Provider](#)

Questions or feedback? Contact us at share-support@osf.io

We will look at your data, and see if it can be added to the system.

If your data already conforms to the [SHARE data schema](#), no registration is necessary. You can push it directly to our system. See the [documentation](#) for more information.

osf.io/share/docs



A screenshot of a web browser window displaying the SHARE API Documentation page. The browser's address bar shows the URL <https://osf.io/share/docs/>. The page features the SHARE logo at the top, which consists of a blue infinity symbol with the word "SHARE" below it. A note indicates that this is a beta release of the SHARE API. The main heading is "SHARE API Documentation", followed by a paragraph explaining the API's purpose: to access Research Release Events in the SHARE database and publish organizational publications, data, repository holdings, or other research directly to SHARE. It lists three endpoints: "search", "data", and "stats". Below this, it states the API was created by the Center for Open Science and provides a link to <http://osf.io/share> and a link to "Contact the developer". The "SHARE : API endpoints" section lists three endpoints: GET /share/search, POST /share/data, and GET /share/stats. At the bottom, it shows the base URL as /api/v1 and the API version as 1.0.0.

SHARE API Documentation

Note: This is a beta release of the SHARE API and may change in the future. Please see the [SHARE Changelog](#) for details.

SHARE API Documentation

The SHARE API allows you to access all Research Release Events in the SHARE database and publish your organization's publications, data, repository holdings, or other research directly to SHARE. The API has three endpoints. "search," "data," and "stats." "search" allows you to access information in SHARE, "data" allows you to post to SHARE, and "stats" gives metrics on the different providers in SHARE.

Created by the Center for Open Science
See more at <http://osf.io/share>
[Contact the developer](#)

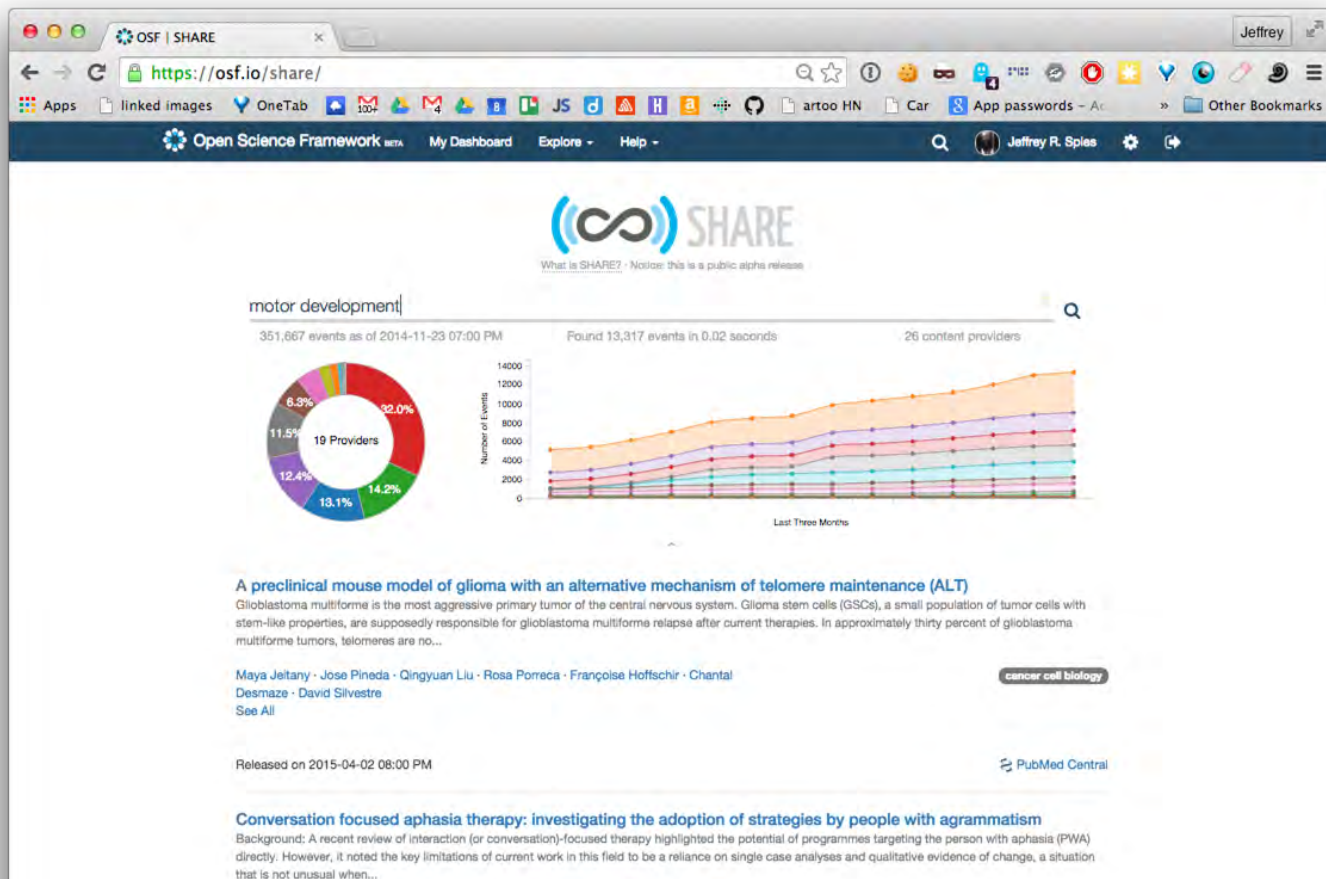
SHARE : API endpoints

Show/Hide | List Operations | Expand Operations

GET	/share/search
POST	/share/data
GET	/share/stats

[BASE URL: /api/v1 , API VERSION: 1.0.0]

http://osf.io/share



What does this mean for you?

- Competitive analyses
- Matchmaking
- Broad scope of content

- FREE TO USE
- DATA IS OPEN
- INVITATION TO CONTRIBUTE

Under the hood

- Modularity
- Reliability
- Flexibility
- Scalability



Live demo

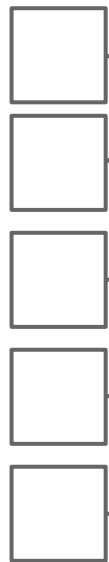
What we've learned

- Metadata is used inconsistently across the research ecosystem
- Providers are unsure of their rights to share metadata
- Solutions will involve improvements to workflow, policy, and technical infrastructure

Where we're going

- Analyze stakeholders' current processes through which research passes from conception to completion
- Promote and reward policies that encourage data sharing
- Deploy multiple strategies to enhance metadata in open data set

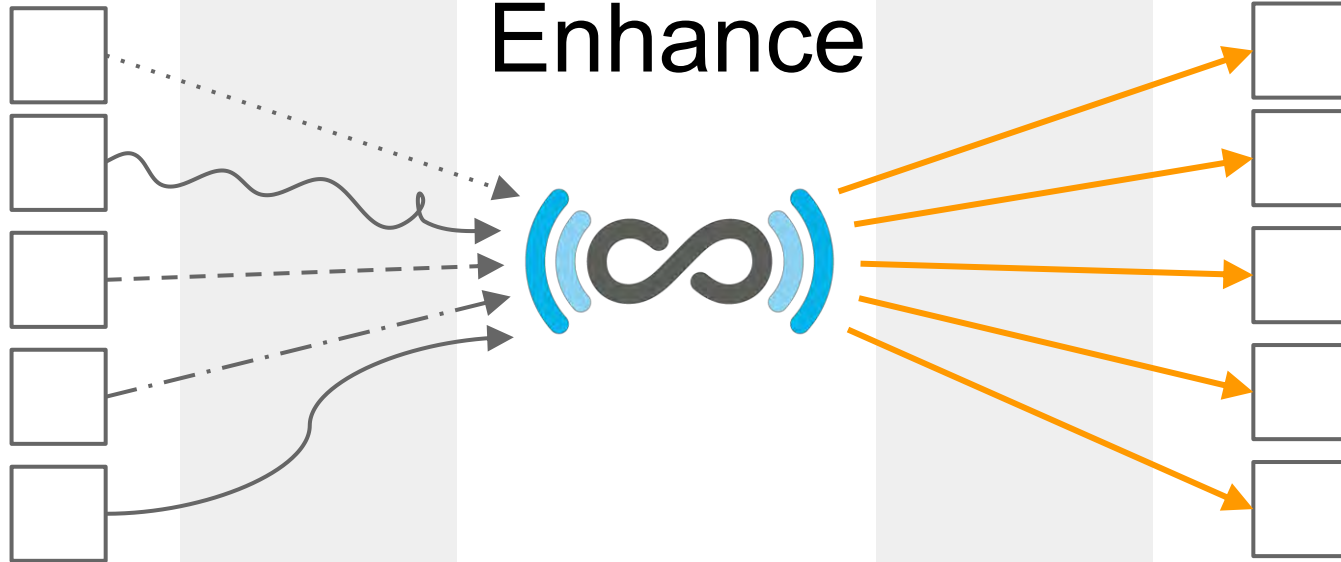
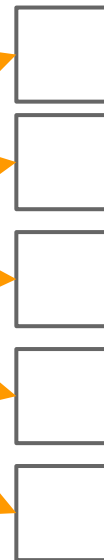
Providers



Enhance



Consumers



Enhancement

- Open
- Collect
- Identify
- Connect

SHARE is a Community Project

Opportunities for participation:

- **Infrastructure**

<https://github.com/centerforopenscience/share>

<https://osf.io/wur56/wiki/>

- **Policy/Workflow**

SHARE Working Group

Standards, identifiers, behaviors

Help us make this work for you

- How would you use SHARE?
- What would you need it to connect to?
- What content would it need to have?
- Interest in piloting?

Find this presentation at
<https://osf.io/mn76t/>

The screenshot displays the Open Science Framework (OSF) web interface. At the top, the navigation bar includes the OSF logo, 'Open Science Framework BETA', and links for 'My Dashboard', 'Explore', and 'Help'. A search bar and user profile for 'Andrew Sallans' are also present. Below the navigation bar, a secondary menu shows 'Presentations', 'Files', 'Wiki', 'Statistics', 'Registrations', 'Forks', 'Sharing', and 'Settings'. The main content area is titled 'Sallans_NORDP_SHARE_2015.05.01.pdf'. On the left, a sidebar shows a search bar and a list of files under 'Project: Presentations' and 'OSF Storage', with 'Sallans_NORDP_SHARE_2015.05.01.pdf' highlighted. The central part of the screen shows a preview of the presentation slide, which features the OSF logo and the text: 'Open Data for Research Analytics: The SHARE Notification Service', 'Andrew Sallans, Center for Open Science', 'NORDP Annual Research Development Conference', and 'Spring 2015'. On the right, there are buttons for 'Download' and 'Delete', and a table showing the version history of the file.

Version ID	Date	User	Download
1	2015-05-01 09:40 AM	Andrew Sallans	